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DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-35, drawn to a apparatus, classified in class 164, subclass 487.
- II. Claims 36-41, drawn to a method, classified in class 164, subclass 154.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the method can be used to cool an injection mold.
- 3. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.
- 4. During a telephone conversation with Mr. Mark Hendrickson on March 11, 2005 a provisional election was made *without* traverse to prosecute the invention of group I, claims 1-
- 35. Affirmation of this election must be made by applicant in replying to this Office action.

Claims 36-41 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

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Allowable Subject Matter

Claims 1-35 are allowed.

EXAMINER'S AMENDMENT

5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claims 36-41 have been canceled, since election was made without traverse. However, these claims can be filed in a divisional application.

6. The following is an examiner's statement of reasons for allowance:

The prior arts of record fail to teach or suggest a first plurality of coolant discharge apertures configured at a first end to receive coolant at a first coolant flow rate, and configured at a second end to discharge a first discharge coolant flow at a first coolant discharge velocity toward a first fractional surface portion of a castpart being molded, a second plurality of coolant discharge apertures configured at a first end to receive coolant at a second coolant flow rate, and configured at a second end to discharge a second discharge coolant flow at a second coolant discharge velocity toward a second fractional surface portion of the castpart; wherein the first

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coolant flow rate is approximately equal to the second coolant flow rate; and further wherein the first coolant discharge velocity is less than the second coolant discharge velocity.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Len Tran whose telephone number is (571) 272-1184. The examiner can normally be reached on M-F, 8:30 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Len Tran Examiner Art Unit 1725

LT April 1, 2005 Jonat J.
Primary examiner
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